PATENT COOPERATION TREATY

From the					
INTERNATIONAL SEARCHING AUT	HORITY				
To: JAMES F. KAMP RADER, FISHMAN & GRAUER PLLC		PCT			
39533 WOODWARD AVENUE SUITE 140 BLOOMFIELD HILLS, MI 48304		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
			(PCT Rule 43bis.1)		
		Date of mailing (day/month/year) 21 JUN 2005			
Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below			
66267-0011					
International application No. International filing date		day/month/year)	Priority date (day/month/year)		
PCT/US05/04291 11 February 2005 (11.0		.2005)	11 February 2004 (11.02.2004)		
International Patent Classification (IPC		ion and IPC			
IPC(7): A61B 5/0468, 5/0472 and US (Applicant	CI.: 000/309, 310				
HENRY FORD HEALTH SYSTEM					
HENRI FORD HEALTH STSTEM					
1. This opinion contains indications relating to the following items:					
Box No. I Basis of the opinion					
Box No. II Priority	Priority				
Box No. III Non-estab	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of u	Lack of unity of invention				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain do	Certain documents cited				
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
2. FURTHER ACTION		•			
International Preliminary Examin	ing Authority ("IPEA") ex the IPEA and the chosen I	ccept that this does PEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an le International Bureau under Rule 66.1bis(b) dered.		
IPFA a written reply together, y	where appropriate, with am before the expiration of 22 i	endments, before t	PEA, the applicant is invited to submit to the he expiration of 3 months from the date of ority date, whichever expires later.		
3. For further details, see notes to Fo	orm PCT/ISA/220.				
Name and mailing address of the ISA/	US	Authorized office	er One of the of he		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Carl H. Layno	another h		

Telephone No. (571) 272-4949

P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US05/04291	

Box No. I Basis of this opinion				
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a. type of material				
a sequence listing				
table(s) related to the sequence listing				
b. format of material				
in written format				
in computer readable form				
c. time of filing/furnishing				
contained in international application as filed.				
filed together with the international application in computer readable form.				
furnished subsequently to this Authority for the purposes of search.				
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Additional comments:				

10/588586 IAP11 Rec'd PCT/PTO 04 AUG 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/04291

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement		
Novelty (N)	Claims 4, 8-21, 28, 29, and 33-39	YES
• * * * * * * * * * * * * * * * * * * *	Claims 1-3, 5-7, 22-27, and 30-32	NO
Inventive step (IS)	Claims 4, 8-21, 28, 29, and 33-39	YES
-	Claims 1-3, 5-7, 22-27, and 30-32	NO
Industrial applicability (IA)	Claims 1-39	YES
	Claims NONE	NO

2. Citations and explanations:

Claims 1-3, 5-7, 22-27, and 30-32 lack novelty under PCT Article 33(2) as being anticipated by Taha et al '090-B2. The Taha et al '090-B2 patent describes a method and apparatus for the serial comparison of electrocardiograms. Fig.2A shows that a baseline ECG value is acquired from the patient during a stable cardiac period 100. This baseline is stored in system memory 102 and later compared with recently acquired ECG data 108. A plurality of QRS complex segments are compared (Figd.2B and 2C) including QT interval 138. If the QT interval exceeds the baseline and is greater than 450 ms, then a "severity value" is assigned to the QT interval block. If the QT interval exceeds 480 ms, then a "high severity" value is assigned (col.8, lines 40-48). In regard to claim 3, this analysis is performed automatically by management module 26 (Fig.1). In regard to claims 6, 22, and 25, the detection of prolonged QT interval is indicative of acute ischemia (i.e. infarction) (col.8, lines 29-30).

Claims 4, 8-21, 28, 29, and 33-39 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method and corresponding ECG monitoring apparatus capable of performing an electrocardiogram comparison manually (claim 4), comparing activation recovery interval data (claims 8,28,33,38), comparing monophasic action potential data (claims 9,29,34,39), performing en ECG comparisons after a clinical procedure (claims 10-21), or detecting prolonged myocardial repolarization as an indicator of "ischemic preconditioning" (claims 35-39).

Claims 1-39 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.